SOL Instruction Tracking Form Grade 6 Mathematics

Place the SOL Instruction Tracking Form after the VGLA Collection of Evidence (COE) Coversheet. Use the SOL Instruction Tracking Form to track the evidence collected for submission.

6.1 The	student will						
	identify representations of a given percent and						
•	describe orally and in writing the equivalence relationship among fractions, decimals,						
	and percents.						
6.2 The	6.2 The student will describe and compare two sets of data, using						
	ratios, and						
	appropriate notations, such as a/b, a to b, and a:b.						
6.3 The	6.3 The student will						
	find common multiples and factors, including						
a)	least common multiple and						
	greatest common factor;						
b)	identify prime and composite numbers and						
D)	describe prime and composite numbers; and						
c)	identify the characteristics of even and odd integers and						
	describe the characteristics of even and odd integers.						
6.4 The	student will compare and order whole numbers, fractions, and decimals, using						
	concrete materials,						
	drawing or pictures, and						
	mathematical symbols.						
6.5 The student will							
	identify,						
	represent,						
	order, and						
	compare integers.						
6.6 The	student will						
	solve problems that involve addition, subtraction, multiplication, and/or division with						
a)	fractions and mixed numbers, with and without regrouping, that						
<i>a)</i>	include like and unlike denominators of 12 or less, and						
	express their answers in simplest forms; and						
b)	find the quotient, given a dividend expressed as a decimal through thousandths and a						
	divisor expressed as a decimal to thousandths with exactly one non-zero digit.						
6.7 The	student will use estimation strategies to solve multistep practical problems involving						
	whole numbers,						
	decimals, and						
	fractions (rational numbers).						
6.8 The	student will solve multistep consumer-application problems involving						
	fractions and						
	decimals and						
	present data and conclusions in paragraphs, tables, or graphs.						
	Planning a budget will be included.						

volume	student will compare and convert units of measure for length, area, weight/mass, and within the U.S. Customary system and within the metric system and estimate ons between units in each system:					
	length					
	part of an inch $(1/2, 1/4, \text{ and } 1/8),$					
	inches,					
	feet,					
,	yards,					
a)	miles,					
	millimeters,					
	centimeters,					
	meters, and					
	kilometers;					
	weight/mass					
	ounces,					
L)	pounds,					
b)	tons,					
	grams, and					
	kilograms;					
	liquid volume					
	cups,					
	pints,					
c)	quarts,					
	gallons,					
	milliliters, and					
	liters; and					
	area – square units.					
d)	*The intent of this standard is for students to make ballpark comparisons and not to					
6 10 Hg	memorize conversion factors between U.S. customary and metric units. ing standard and nonstandard units of measure the student will estimate and then					
determi						
determin	length,					
	weight/mass,					
	area, and					
	liquid volume/capacity.					
6.11 Th	e student will					
	determine if a problem situation involving polygons of four or fewer sides represents					
	the application of perimeter or area and					
	apply the appropriate formula.					
6.12 Th	e student will					
a)	solve problems involving the circumference and/or area of a circle when given the diameter or radius; and					
b)	derive approximations for pi (π) from measurements for					
	circumference and diameter, using concrete materials or computer models.					

6.13 Th	e student will				
2)	estimate angle measures, using 45°, 90°, and 180° as referents, and				
a)	use the appropriate tools to measure the given angles; and				
b)	measure and draw				
	right angles,				
	acute angles,				
	obtuse angles and				
	triangles.				
6.14 The student will identify, classify, and describe the characteristics of plane figures, describing their					
	similarities,				
	differences, and				
	defining properties.				
6.15 Th	e student will determine congruence of				
	segments,				
	angles, and				
	polygons by direct comparison, given their attributes.				
	Examples of non-congruent and congruent figures will be included.				
6.17 Th	e student will				
	sketch models of:				
	rectangular prism,				
	cone,				
	cylinder, and				
	pyramid.				
	construct models of:				
	rectangular prism,				
	cone,				
	cylinder, and				
	pyramid.				
(10 m)	classify solid figures.				
	e student, given a problem situation, will collect, analyze, display, and interpret data in y of graphical methods, including				
	line,				
a)	bar, and				
	circle graphs; circle graphs will be limited to halves, fourths, and eighths.				
b)	stem-and-leaf plots; and				
c)	box-and-whisker plots.				
6.19 Th	e student will describe				
	measures of central tendency				
	mean,				
	median, and				
	mode,				
	describe the range, and				
	determine their meaning for a set of data.				

6.20 Th	6.20 The student will					
2)	make a sample space for selected experiments and represent it in the form of a					
a)	list, chart, picture, or tree diagram; and					
	determine and interpret the probability of an event occurring from a given sample					
b)	space and represent the probability as a ratio, decimal, or percent, as appropriate for the					
	given situation.					
6.21 The student will investigate, describe, and extend numerical and geometric patterns,						
including						
	triangular numbers,					
	patterns formed by powers of 10, and					
	arithmetic sequences.					
6.22 The student will investigate and describe concepts of						
	positive exponents,					
	perfect squares,					
	square roots, and,					
	for numbers greater than 10, scientific notation.					
	Calculators will be used to develop exponential patterns.					
6.23 Th	6.23 The student will					
a)	model and solve algebraic equations, using concrete materials;					
	solve one-step linear equations in one variable, involving					
b)	whole number coefficients and					
	positive rational solutions; and					
	use the following algebraic terms appropriately:					
c)	variable,					
	coefficient,					
	term, and					
	equation.					

Submit Quarterly to the building level administrator/designee for review:

Date	Date	Date	Date
Submitted/Initials	Submitted/Initials	Submitted/Initials	Submitted/Initials